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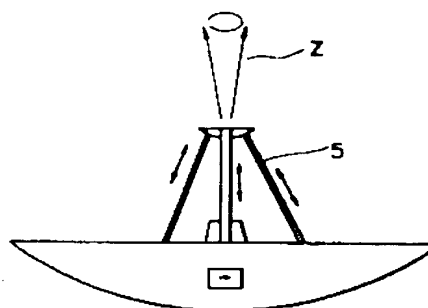
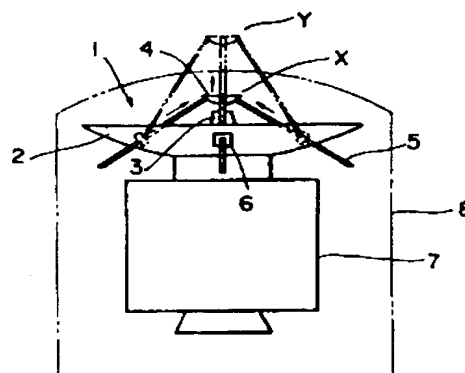
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APPLICANT : NEC CORP;

INVENTOR : NAKAJIMA ATSUSHI;

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TITLE : PARABOLIC ANTENNA FOR LOADING
ON ARTIFICIAL SATELLITE



ABSTRACT : PURPOSE: To simplify a structure of a tilted parabolic antenna, and also to make it light by holding a sub-reflector through plural supporting rods which can adjust freely a projecting length from a main reflector.

CONSTITUTION: In case a parabolic antenna 1 is mounted to a launching machine, it is subjected to various restrictions of dimensions, but in case of launching by a space shuttle, the restrictions in the height direction become large. In this case, a sub-reflector 4 of the antenna 1 is set to a position of X from a position of Y, its launching is executed in a state that it is made low, and it is returned to the position of Y by adjusting a projecting length of a supporting rod 5 on an orbit. Also, the return is executed by a motor 6 provided on a point where three supporting rods 5 contact with a main reflector 2. A beam direction Z can be controlled by operating separately each motor 6, varying each projecting length (l), and inclining the sub-reflector 4 in an optical direction.

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